

## PATENT ABSTRACTS OF JAPAN

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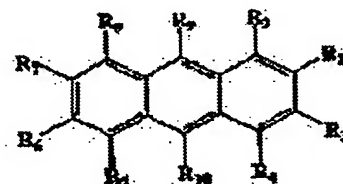
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## (54) LUMINESCENT MATERIAL

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide amorphous blue luminescent materials with excellent heat-resistance and aging stability obtained by reacting anthraquinone derivatives with halogenated aryl compounds, and thereafter subjecting the resultant to cyclodehydration.

**SOLUTION:** Luminescent materials having anthracene rings as the base backbone, represented by the formula (wherein R1-R8 are each H, alkyl or alkoxy, and R9-R10 are each naphthyl, anthryl, phenanthryl, biphenyl or terphenyl which may have a substituting group selected from alkyl and alkoxy) are obtained by reacting anthraquinone derivatives with halogenated aryl compounds in a diethyl ether solvent in the presence of butyllithium, and subjecting the resulting compounds to cyclodehydration under acid conditions using potassium iodide and sodium phosphinate. Thus, amorphous luminescent elements with hardly crystallizing property and excellent in heat-stability and durability can be obtained.



## LEGAL STATUS

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